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Stephen Gwyn Ballard

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U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIALS | DOCUMENT<br>NUMBER | DATE    | NAME                 | CLASS | SUB-<br>CLASS | DATE |
|----------------------|--------------------|---------|----------------------|-------|---------------|------|
| 6                    | 3,119,685          | 1 1964  | Hansley et al.       | 75    | 65            |      |
|                      | 4,268,325          | 5 1981  | O'Handley et al.     | 148   | 108           |      |
|                      | 4,356,861          | 11 1982 | Winter               | 164   | 462           |      |
|                      | 4,503,013          | 3 1985  | Lowther              | 422   | 127           |      |
|                      | 4,610,718          | 9 1986  | Araya et al.         | 75    | 0.5C          |      |
|                      | 4,796,687          | 1 1989  | Lewis et al.         | 164   | 455           |      |
|                      | 5,062,936          | 11 1991 | Beaty et al.         | 204   | 164           |      |
|                      | 5,091,253          | 2 1992  | Smith et al.         | 428   | 363           |      |
|                      | 5,194,128          | 3 1993  | Beaty et al.         | 204   | 164           |      |
|                      | 5,252,144          | 10 1993 | Martis               | 148   | 121           |      |
|                      | 5,294,242          | 3 1994  | Zurecki et al.       | 75    | 345           |      |
|                      | 5,340,377          | 8 1994  | Accary et al.        | 75    | 334           |      |
|                      | 5,460,701          | 10 1995 | Parker et al.        | 204   | 164           |      |
|                      | 5,486,675          | 1 1996  | Taylor et al.        | 217   | 121.59        |      |
|                      | 5,514,349          | 5 1996  | Parker et al.        | 422   | 186.21        |      |
|                      | 5,628,881          | 5 1997  | Lemelson             | 204   | 164           |      |
|                      | 5,635,665          | 6 1997  | Kishi et al.         | 102   | 288           |      |
|                      | 5,665,277          | 9 1997  | Johnson et al.       | 264   | 6             |      |
|                      | 5,707,419          | 1 1998  | Tsantrizos et al.    | 75    | 336           |      |
|                      | 5,788,738          | 8 1998  | Pirzada et al.       | 75    | 331           |      |
|                      | 5,851,507          | 12 1998 | Pirzada et al.       | 423   | 659           |      |
|                      | 5,874,684          | 2 1999  | Parker et al.        | 75    | 228           |      |
|                      | 5,876,683          | 3 1999  | Glumac et al.        | 423   | 325           |      |
|                      | 5,879,518          | 3 1999  | Kuehnle              | 204   | 164           |      |
|                      | 5,885,321          | 3 1999  | Higa et al.          | 75    | 362           |      |
|                      | 5,935,461          | 8 1999  | Witherspoon et al.   | 219   | 121.59        |      |
|                      | 5,936,195          | 8 1999  | Wheatley             | 149   | 19.91         |      |
|                      | 5,993,967          | 11 1999 | Brotzman, Jr. et al. | 428   | 407           |      |
|                      | 6,001,426          | 12 1999 | Witherspoon et al.   | 427   | 449           |      |
|                      | 6,033,781          | 3 2000  | Brotzman, Jr. et al. | 428   | 405           |      |
|                      | 6,118,218          | 9 2000  | Yializis et al.      | 315   | 111.21        |      |
| ✓                    | 6,126,764          | 10 2000 | Immerman             | 149   | 87            |      |

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|                          |  |         |                       |                  |             |   |
|--------------------------|--|---------|-----------------------|------------------|-------------|---|
| 6                        | Re. 35,042   | 9 1995  | Anderson, III, et al. | 340              | 572         |   |
| FOREIGN PATENT DOCUMENTS |  |         |                       |                  |             |   |
|                          | DOCUMENT NUMBER  | DATE    | COUNTRY               | CLASS            | TRANSLATION |   |
| 6                        | 1,204,261  | 9 1970  | Great Britain         | B22 F3 08, 7 04  |             |   |
|                          | EP 0347386   | 12 1989 | EPO                   | B22 F9 14        |             |   |
|                          | EP 0718061 A1  | 6 1996  | EPO                   | B22 F9 14        |             |   |
|                          | EP1031639 A1   | 3 2000  | EPO                   | C23 C14 34       |             |   |
|                          | WO 92 17303  | 10 1992 | PCT                   | B22 F9 14        |             | N |
|                          | WO 00 10756  | 3 2000  | PCT                   | B22 F9 14        |             |   |
|                          | SU 1813812 A1  | 5 1993  | USSR                  | 5C23 D15 00      | X           |   |
|                          | RU 2013380 C1  | 5 1994  | Russia                | 5C02 F1 62       | X           |   |
|                          | RU 2063417 C1  | 7 1996  | Russia                | 6C10 M141 06     | X           |   |
|                          | RU 2064970 C1  | 8 1996  | Russia                | 6C10 M141 02     | X           |   |
|                          | RU 2075371 C1  | 3 1997  | Russia                | 6B22 F9 14       | X           |   |
|                          | RU 2093311 C1  | 10 1997 | Russia                | 6B22 F9 14       | X           |   |
|                          | RU 2102337 C1  | 1 1998  | Russia                | 6C02 F1 28       | X           |   |
|                          | RU 2105041 C1  | 2 1998  | Russia                | 6C10 L1 18, 1 30 | X           |   |
|                          | RU 2113318<br>(abstract only)  | 6 1998  | Russia                | B22 F9 14        |             |   |
|                          | RU 2116164<br>(abstract only)  | 7 1998  | Russia                | B22 F9 16        |             |   |
|                          | RU 2120353 C1  | 10 1998 | Russia                | B22 F9 14        | X           |   |
| OTHER DOCUMENTS          |  |         |                       |                  |             |   |
| 6                        | Kotov, Y.A. and Samatov, O.M., <i>Production of Nanometer-Sized AlN Powders by the Exploding Wire Method</i> , 4 <sup>th</sup> Intern. Confer. on Nanostructured Materials, June 14-19, Stockholm, Sweden. *   |         |                       |                  |             |   |
|                          | Kotov Yu.A., Azarkevich E.I., Beketov I.V., Demina T.M., Murzakaev A.M., Samatov O.M., <i>Producing Al and Al<sub>2</sub>O<sub>3</sub> Nanopowders by Electrical Explosion of Wire</i> , Key Engineering Materials, Trans.Tech.Pub., V.132-136, pp.173-176. *                          |         |                       |                  |             |   |
|                          | Kotov Yu.A., Azarkevich E.I., Beketov I.V., Murzakaev A.M., <i>Synthesis of Nanometer-sized Powders of Alumina Containing Magnesia</i> , Proceed of 9 <sup>th</sup> Intern. Confer. on Modern Materials Technologies CIMTEC-98, June 14-19, 1998, Florence, Italy, Part B, pp.277-284. |         |                       |                  |             |   |
|                          | Beketov, I.V., et al., <i>Synthesis of Nanometer-Sized Powders of Alumina and Titania Using the Electrical Explosion of Wires</i> , Fourth Euro Ceramics - Vol. 1, pp. 77-82, 1995   |         |                       |                  |             |   |
|                          | Kotov, Y.A., Beketov, I.V., Murzakaev, A.M., Samatov, O.M., Bothme, R., Schumacher, G., <i>Synthesis of AlO, TiO, ZrO nanopowders by electrical explosion of wires</i> , Material Science Forum Vols. 225-227, pp. 913-916 (1996).   |         |                       |                  |             |   |
|                          | Ivanov, V., et al., <i>Synthesis and Dynamic Compaction of Ceramic Nano Powders by Techniques Based on Electric Pulsed Power</i> , Nanostructured Materials, Vol. 6, pp. 278-290, 1995   |         |                       |                  |             |   |
|                          | <a href="http://www.argonide.com">http://www.argonide.com</a> , Advanced Nano Metal Powder Technology, 10 pps., downloaded 8/8/2000  |         |                       |                  |             |   |
|                          | Ivanov, G., et al., <i>Self-Propagating Process of Sintering of Ultradisperse Metal Powders</i> , Vopr. Akad. Nauk SSSR, Vol. 275, pp. 873-875, 1984   |         |                       |                  |             |   |
| EXAMINER                 |  |         | DATE CONSIDERED       |                  |             |   |
| 6 Hayt                   |  |         | 9/20/09               |                  |             |   |